CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method, comprising:

loading a virtual machine monitor into a system memory;

using the virtual machine monitor as a proxy agent for firmware and an operating system ("OS") runtime and installation to a data storage unit ("DSU") coupled to the system memory, wherein the DSU and the system memory are included on a same hardware platform;

using the virtual machine monitor to intercepting intercept a request to write new data to a location on [[a]] the data storage unit ("DSU") DSU;

using the virtual machine monitor to saving save a copy of old data currently residing at the location on the DSU to enable restoration of the old data to the location on the DSU; and using the virtual machine monitor to writing write the new data to the location on the DSU.

- 2. (Original) The method of claim 1, further comprising restoring the old data to the location using the saved copy of the old data to rollback the DSU to a previous state.
 - 3. (Original) The method of claim 2, further comprising:

generating a recovery screen asking a user whether to restore the previous state in response to encountering a system error.

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4. (Original) The method of claim 2, wherein saving the copy of the old data further

comprises saving the copy of the old data with a time marker to enable rollback of the DSU to a

known good state.

5. (Original) The method of claim 4, further comprising:

saving multiple versions of the old data correlated with time markers to enable rollback

of the DSU to one of multiple previous states.

6. (Original) The method of claim 5, further comprising:

pruning versions of the old data having an expired time marker.

7. (Currently Amended) The method of claim 2, wherein saving the copy of the old data

comprises saving the copy to a reserved area of the DSU hidden from the an operating system

("OS").

8. (Canceled).

9. (Currently Amended) A method, comprising:

loading a virtual machine monitor into a system memory;

using the virtual machine monitor as a proxy agent for firmware and an operating system

runtime and installation to a data storage unit ("DSU") coupled to the system memory, wherein

the DSU and the system memory are included on a same hardware platform;

using the virtual machine monitor to intercept intercepting a request to write new data to

a first location on the DSU a data storage unit ("DSU");

using the virtual machine monitor to save saving the new data to a second location

different from the first location; and

leaving old data currently stored at the first location to enable rollback of the DSU to a

previous state.

10. (Original) The method of claim 9, further comprising

intercepting a request to read the first location of the DSU;

determining whether the new data corresponding to the first location is currently saved at

the second location; and

diverting the request to read the first location to the second location.

11. (Original) The method of claim 10, wherein saving the new data to the second

location further comprises saving an address of the first location along with the new data at the

second location.

12. (Original) The method of claim 11, wherein the second location is located within a

reserved area of the DSU hidden from an operating system loaded from a partition of the DSU.

13. (Original) The method of claim 12, wherein determining whether the new data

corresponding to the first location is currently saved at the second location comprises searching

the reserved area for a match between a read address of the request to read the first location and the address of the first location saved along with the new data at the second location.

14. (Original) The method of claim 9, further comprising rolling back the DSU to the previous state by:

deleting the new data written to the second location; and directing the request to read the first location to the first location.

15. (Currently Amended) A machine-accessible medium that provides instructions that, if executed by a machine, will cause the machine to perform operations comprising:

loading a virtual machine monitor into a system memory included in the machine;

using the virtual machine monitor as a proxy agent for firmware and an operating system runtime and installation to a data storage unit ("DSU") coupled to the system memory;

using the virtual machine monitor to intercept intercepting a request to write new data to a location on [[a]] the DSU data storage unit ("DSU");

using the virtual machine monitor to save saving a copy of old data currently residing at the location on the DSU to enable restoration of the old data to the location on the DSU; and using the virtual machine monitor to write writing the new data to the location on the DSU.

16. (Original) The machine-accessible medium of claim 15, further providing instructions that, if executed by the machine, will cause the machine to perform further operations, comprising:

Attorney Docket No.: 42P18588 Application No.: 10/796,494 restoring the old data to the location using the saved copy of the old data to rollback the

DSU to a previous state.

17. (Original) The machine-accessible medium of claim 16, wherein saving the copy of

the old data further comprises saving the copy of the old data with a time stamp to enable

rollback of the DSU to a known good state.

18. (Original) The machine-accessible medium of claim 17, wherein saving the copy of

the old data further comprises saving the copy of the old data with an address of the location to

enable restoring the old data to the location.

19. (Currently Amended) The machine-accessible medium of claim 15, further providing

instructions that, if executed by the machine, will cause the machine to perform further

operations, comprising:

executing [[an]] the operating system ("OS") within a virtual machine; and

proxying access to the DSU with a virtual machine monitor ("VMM"), wherein the

VMM intercepts the request to write the new data and saves the copy of the old data to a

reserved area hidden from the OS.

20. (Currently Amended) A machine-accessible medium that provides instructions that,

if executed by a machine, will cause the machine to perform operations comprising:

loading a virtual machine monitor into a system memory;

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using the virtual machine monitor as a proxy agent for firmware and an operating system

runtime and installation to a data storage unit ("DSU") coupled to the system memory, wherein

the DSU and the system memory are included on a same hardware platform;

using the virtual machine monitor to intercept intercepting requests to write new data to

write locations within a first portion of [[a]] the <u>DSU</u> data storage unit ("DSU");

using the virtual machine monitor to save saving the new data to a reserved area not

including the first portion; and

leaving old data currently stored at the write locations to enable rollback of the DSU to a

previous state.

21. (Original) The machine-accessible medium of claim 20, further providing

instructions that, if executed by the machine, will cause the machine to perform further

operations, comprising:

intercepting a request to read a read location within the first portion;

determining whether any of the new data saved within the reserved portion corresponds

to the read location; and

providing a corresponding portion of the new data in response to the request to read the

read location, if some of the new data saved within the reserved area is determined to correspond

to the read location.

22. (Original) The machine-accessible medium of claim 21, further providing

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instructions that, if executed by the machine, will cause the machine to perform further

operations, comprising:

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to read the read location, if none of the new data saved within the reserved area is determined to

correspond to the read location.

23. (Original) The machine-accessible medium of claim 22, wherein saving the new data

to the reserved area further comprises saving the new data to the reserved area along with

addresses of the corresponding write locations and wherein determining whether any of the new

data saved within the reserved portion corresponds to the read location comprises comparing the

addresses saved within the reserved area to a read address of the read location.

24. (Original) The machine-accessible medium of claim 20, further providing

instructions that, if executed by the machine, will cause the machine to perform further

operations, comprising

deleting the new data saved to the reserved area to rollback the DSU to a known good

state.

25. (Currently Amended) A system, comprising:

a processor to execute instructions;

a hard disk drive ("HDD") to save old data and new data; and

non-volatile memory accessible by the processor and having the instructions stored

thereon, which if executed by the processor, will cause the processor to perform operations

comprising:

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loading a virtual machine monitor into a system memory coupled to the HDD and

located on a same hardware platform as the HDD:

using the virtual machine monitor as a proxy agent for firmware and an operating

system runtime and installation to the HDD;

using the virtual machine to intercept a request to write new data to a write

location on the HDD;

using the virtual machine to save saving a copy of old data currently residing at

the write location on the HDD to enable restoration of the old data to the write location

on the HDD; and

writing the new data to the write location on the HDD.

26. (Original) The system of claim 25 wherein the non-volatile memory further includes

instructions stored thereon, which if executed by the processor, will cause the processor to

perform further operations comprising:

restoring the old data to the write location using the saved copy of the old data to rollback

the HDD to a previous state.

27. (Original) The system of claim 25 wherein saving the copy of the old data currently

residing at the write location comprises saving the copy of the old data with a time marker and an

address of the write location to enable rollback of the HDD to a known good state.

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28. (Original) The system of claim 27 wherein saving the copy of the old data currently residing at the write location further comprises saving the copy to a reserved area of the HDD hidden from an operating system saved on the HDD.

29. (Original) The system of claim 25 wherein the HDD comprises the non-volatile memory.

30.-33. (Canceled).

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